(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 9 June 2005 (09.06.2005)

PCT

(10) International Publication Number WO 2005/051543 A1

(51)	International Patent	Classification7:
	G01N 35/10	

B01L 3/02,

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(21) International Application Number:

PCT/IB2004/003876

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(22) International Filing Date:

24 November 2004 (24.11.2004)

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(25) Filing Language:

English

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

1497 (US).

(26) Publication Language:

English

(30) Priority Data:

FR 27 November 2003 (27.11.2003) 0313920 27 November 2003 (27.11:2003) 0313921 9 March 2004 (09.03.2004) 0402433 7 September 2004 (07.09.2004) FR 0409442 7 September 2004 (07.09.2004) FR 0409438

FR

0409443 7 September 2004 (07.09.2004) 10/944,532 17 September 2004 (17.09.2004) GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,

PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

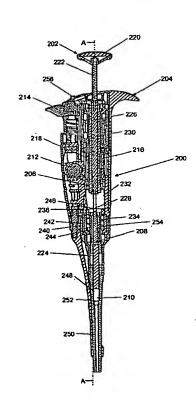
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR PRECISE LIQUID MEASUREMENT IN A LIQUID SAMPLING PIPETTE

US



(57) Abstract: A device and method are provided for correcting a requested volume of liquid to aspirate/dispense by a liquid handling pipette based on the requested volume and/or a physical condition at the pipette. The pipette includes a piston drive mechanism configured to contact a piston assembly and move a piston rod of the piston assembly within a tip holder thereby causing regulation of an amount of liquid in the tip holder. The method includes selecting a requested volume at a pipette, the requested volume representing the amount of liquid to regulate, calculating a correction volume using a volume characterization, wherein the volume characterization characterizes a difference in the amount of the liquid regulated in the tip holder as a function of the requested volume, and displaying the correction volume to a user of the pipette thereby regulating the requested volume of liquid in the tip holder. The volume characterization is determined using a calibration process.